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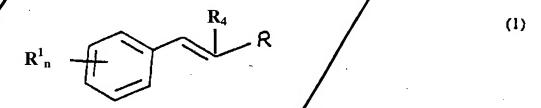


What is claimed is:

1. A method for providing a susceptible plant with increased resistance to pathological microorganisms, said method comprising:

administering to said plant a nonphytotoxic composition comprising an agent which increases accumulation of aromatic aldehydes in said plant or increases cinnamic acid in said plant, whereby at least one of growth and viability of a pathological microorganism which colonizes a surface or a part of said plant is impaired.

2. The method according to Claim 1, wherein said agent comprises at least one aromatic compound have the formula



wherein R represents -CHO, CH₂OH, -COOH, or -COOR₅; n is an integer from 0 to 3; each R¹ represents -OH or an organic substituent containing from 1 to 10 carbon atoms and from 0 to 5 heteroatoms, wherein the total number of carbon and heteroatoms in all R¹ substituents of said compound is no more than 15; and R₄ represents -H or an organic constituent containing from 1 to 10 carbon atoms; and R₅ represent an organic substituent containing from 1 to 10 carbon atoms and from 0 to 5 heteroatoms.

- 3. The method according to Claim 1, wherein said administering is transforming said plant with a composition comprising a vector containing a nucleotide sequence encoding said agent, and wherein expression of said nucleotide sequence is controlled by a promoter functional in said plant.
- 4. The method according to Claim 3, wherein said nucleotide sequence is a DNA sequence.
- 5. The method according to Claim 3, wherein said nucleotide sequence is heterologous to said plant.

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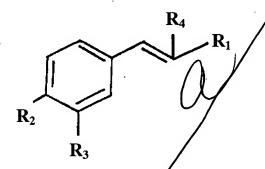
- 6. The method according to Claim 2, wherein said aromatic compound is one or more
- 7. The method according to Claim 6, wherein said aromatic aldehyde is microencapsulated in a polymer.

cinnamic aldehyde and coniferyl aldehyde.

- 8. The method according to Clam 7, wherein said polymer is beeswax or carnauba wax.
- 9. The method according to Claim 2, wherein said agent comprises a balsam.

aromatic aldehydes selected from the group consisting of cinnamic aldehyde, alpha-hexyl

- 10. The method according to Claim 9, wherein said balsam is derived from a Liquidambar tree.
- 11. The method according to Claim 10, wherein said Liquidambar tree is Liquidambar orientalis Miller or Liquidambar sytraciflua
- 12. The method according to Claim 9, wherein said agent further comprises one or both of cinnamic aldehyde and alpha-hexyl cinnamic aldehyde.
- 13. A method for controlling growth of pathological organisms on a plant whereby the plant surface is provided with a nonphytotoxic composition comprising a balsam.
 - 14. The method according to Claim 13, wherein said pathological organisms are aphids.
- 15. The method according to Claim 13 or 14, wherein said composition comprises a surfactant.
- 16. The method according to any one of Claims 13-15, wherein said composition further comprises one or more aromatic aldehydes having the formula



wherein R₁ represents-CHO, R₂ represents -H, -OH or an organic substituent containing from 1 to 10 carbon atoms, and R₃ represents -H, a methoxy group or organic substituent containing

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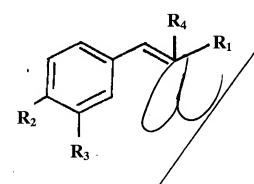
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from 1 to 10 carbon atoms, and R₄ represents -H, or an organic substituent containing from 1 to 10 carbon atoms.

- 17. The method according to Claim 16, wherein said aromatic aldehyde is selected from the group consisting of cinnamic aldehyde, alpha-hexyl cinnamic aldehyde and coniferyl aldehyde.
- 18. A composition comprising a balsam in a formulation which is nonphytotoxic to plants, wherein the concentration of said balsam is sufficient to provide a mean disease control of about 70%.
- 19. The composition according to Claim 18, wherein said composition further comprises one or more aromatic aldehydes having the formula:



wherein R₁ represents-CHO, R₂ represents -H, -OH or an organic substituent containing from 1 to 10 carbon atoms, and R₃ represents -H, a methoxy group or organic substituent containing from 1 to 10 carbon atoms, and R₄ represents -H, or an organic substituent containing from 1 to 10 carbon atoms.

- 20. The composition according to Claim 19, wherein said aromatic aldehydes is selected from the group consisting of cinnamic aldehyde, alpha-hexyl cinnamic aldehyde and coniferyl aldehyde.
 - 21. The composition according to Claim 16, wherein said formulation is an emulsion.

